

32. (Amended) The method of claim 31 wherein the ~~fructosamine oxidase~~ substrate is glycated bovine serum albumin.

33. (Original) The method of claim 32 wherein the glycated bovine serum albumin is modified to eliminate copper chelating activity.

34. (Original) The method of claim 27 wherein measurements are made at a pH of 7 to 8.

35. (Original) The method of claim 27 wherein measurements are made at a pH greater than 7.5.

36. (Canceled)

37. (Previously presented) The method of claim 27 wherein the measurement of conversion of a substrate to a product by fructosamine oxidase is conducted on a sample from a human subject.

38. (Previously presented) The method of claim 27 wherein the sample is selected from the group consisting of blood, plasma, and serum.

39. (Previously presented) The method of claim 37 wherein the human subject is known to be, or suspected of, suffering from diabetes mellitus.

40. (Previously presented) The method of claim 39 further comprising determining whether the level of fructosamine oxidase activity in the sample is in a normal range.